

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:	)	
Alexander L. Klibanov et al.	)	Before the Examiner
	)	UNKNOWN
Application No. 10/511,383	)	
	)	Group Art Unit
Filed May 18, 2005	)	1644
	)	
MICROBUBBLE COMPOSITIONS, AND	)	Confirmation No.
METHODS FOR PREPARING AND USING SAME	)	5031

INFORMATION DISCLOSURE STATEMENT

Mail Stop IDS  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

1. List of All Patents, Publications, U.S. Applications, or Other Information

Pursuant to the provisions of 37 CFR 1.56, 1.97, and 1.98, Applicant requests consideration of the references listed on the attached PTO/SB/08 form(s) (commonly referred to as a PTO-1449 form) and/or the additional information identified below.

2. Enclosed Legible Copies

2a. A legible copy of each foreign patent document and publication listed on the PTO/SB/08 form is enclosed,

☐ i. except, a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior U.S. Patent Application Serial No. \_\_\_\_\_, filed \_\_\_\_\_ from which the present application claims priority under 35 U.S.C. §120.

☐ ii. except, a copy is not provided for each cumulative reference and enclosed reference identified below:

☐ 2b. A copy of the specification and drawings for each cited unpublished U.S. application.

- ☒ 2c. A copy of a Search Report or Written Opinion from a foreign patent office is also enclosed.
- ☐ 2d. Consideration of the enclosed additional and/or below discussed information is requested.

3. Concise Explanation of Relevance for Non-English Language Information

For each non-English language reference listed on the attached SB/08 form(s), reference is made to:

- ☐ 3a. an English language translation submitted herewith,
- ☐ 3b. foreign patent office Search Report (in the English language) submitted herewith,
- ☐ 3c. an English language translation of a foreign patent office Search Report submitted herewith,
- ☐ 3d. the concise explanation contained in the present application at page(s) \_\_,
- ☐ 3e. the concise explanation set forth in the attached English language abstract,
- ☐ 3f. a copy of a related patent publication (in the English language) cited herewith,

Foreign Patent Document	Corresponding English Language Patent Document

- ☐ 3g. the following concise explanation: \_\_.

4. Time for Filing

- ☒ 4a. This Information Disclosure Statement is submitted:
- ☐ i. for U.S. national applications or national stage PCT applications (not including CPAs and RCEs), within 3 months of filing or entry into national stage; or
- ☒ ii. for U.S. national applications, national stage PCT applications, CPAs or RCEs, before the first Office Action on the merits,

and thus no certification and/or fee is required.

- ☐ 4b. This information Disclosure Statement is submitted after three months from the filing date and after the first Office Action on the merits, but prior to the mailing date of a final Office Action or Notice of Allowance, and thus:

- ☐ i. the statement specified in 37 CFR §1.97(e) is provided below, or
- ☐ ii. a fee of \$\_\_\_ (set forth in 37 CFR §1.17(p)) is enclosed.
- ☐ 4c. This Information Disclosure Statement is submitted after the mailing date of a final Office Action or Notice of Allowance and prior to payment of the issue fee, and thus:
  - ☐ i. the statement specified in 37 CFR §1.97(e) is provided below, and a fee of \$ (set forth in 37 CFR §1.17(p)) is enclosed, or
  - ☐ ii. a Request for Continued Examination (RCE) and fee of 37 CFR §1.17(e) has been filed.
- ☐ 4d. This Information Disclosure Statement is submitted after payment of the issue fee, and thus:
  - i. a Petition to Withdraw from Issue pursuant to 37 CFR §1.313(c)(2) has been filed, and
  - ii. a Request for Continued Examination (RCE) and fee of 37 CFR §1.17(e) has been filed.

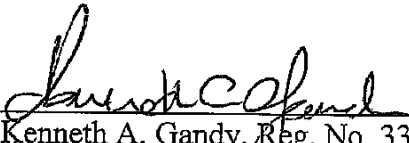
5. Certification- Statement Under 37 CFR 1.97(e)

- ☐ 5a. It is hereby certified that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ 5b. A copy of a dated communication from a foreign patent office which clearly shows the statement is being submitted within three (3) months of the date on the communication is enclosed.
- ☐ 5c. It is hereby certified that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined

in §1.56(b). It is believed that no additional fees are required. Should any other fee be required, however, please charge such fee to Deposit Account No. 23-3030, but not to include any payment of issue fees.

Respectfully submitted,

By   
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/511,383
				Filing Date	October 14, 2004
				First Named Inventor	KLIBANOV, Alexander
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket No.	22078-2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4683092	07-28-1987	Tsang	
		US- 5464932	11-07-1995	Allcock et al.	
		US- 5578119	11-26-1996	Short et al.	
		US- 5846518	12-08-1998	Yan et al.	
		US- 5869538	02-09-1999	Van Liew et al.	
		US- 6051207	04-18-2000	Klaveness et al.	
		US- 6187288	02-13-2001	Schneider et al.	
		US- 6224554	05-01-2001	Tickner et al.	
		US- 6245318	06-12-2001	Klibanov et al.	
		US- 6372195	04-16-2002	Shutt et al.	
		US- 6416740	07-09-2002	Unger	
		US- 6443898	09-03-2002	Unger et al.	
		US- 6548048	04-15-2003	Cuthbertson et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
						<input type="checkbox"/>
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or country where published	T <sup>6</sup>
		PRICE ET AL., Delivery of Colloidal Particles and Red Blood Cells to Tissue Through Microvessel Ruptures Created by Targeted Microbubble Destruction With Ultrasound, Circulation, 29 September 1998, vol. 98, pages 1264-1267, see entire article.	<input type="checkbox"/>

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.